RETURN of FIELD WORK executed by Staff, Authorized, Contract, and Schedule Surveyors, &c.—continued. PROVINCIAL DISTRICT OF WESTLAND.

PROVINCIAL DISTRICT OF WESTLAND.																									
Surveyor.	District.	Major Triangulation.		Minor Triangulation,		ion.	Topogra an Trigonor Surv	aphical d metrical rey.		Rural and Suburban.			Town Section Survey.			Gold-mining Survey.		Roads, Railways, and Water-races.		аув,	Detention by Native Opposition or other Causes.	Other Work.	Total Cost of Surveyor	-	
		Acres.	Cost per Acre.	Potal Cost.	Acres.	Total	l Cost.	Cost Per Acre.	Total Cost.	Acres.	No. of Sections. Cost per Acre.	Total Cost.	Acres.	Allotments. Cost per Allotment.	Total Cost.	Acres.	No. of Sections. Cost	Total Cost.	Miles.	Cost r Mile.	Total Cost.	Cost.	Cost.	and party from 1st July, 1879, to 30th June, 1880.	Remarks,
Staff. W. G. Murray	Turiwhate, Waimea, &c		d	£ s. d.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	£ 11		26,240 d. 2·9	£ s. d 320 4 9	2,642	s. d. 3/53	£ s. d 459 19 3	25 19	s. d. 12 4	£ s. d.	178		£ s. d. 97 13 6	1½ £	s. d.	£ s. d. 2 1 0		£ s. d	£ s. d	£11 4s. minor triangulation comprises the erection of and observations at a few
G. J. Roberts J. N. Smyth	Okarito circuit Wataroa and Paringa	325,683	1.0	1427 10 0 26 18 0	(80134 2	l l	3 0	5,259 23	60``3 8	 3,504	60 1/0 85	187 14 3	130	26 9	92 5 0	1	1 40/	2 0 0	$\begin{array}{c c} \\ 18 & 34 & 1 \\ 5\frac{1}{2} & 12 & 1 \end{array}$		626 13 4 66 5 0	 }		2,166 13 (1,061 19 8	reference stations for connecting purposes. High cost of rural and suburban section survey due to their scattered nature and small size. Including cost of carrying Westland triangulation into Canterbury across main range. £26 18s. minor triangulation incurred whilst assisting Mr. Roberts at erection of stations.
E. J. Lord H. G. Price	Hohonu, Arnold, and Tekinga Wataroa, Wanganui, and Waitaha	•••				*		31,500 3 27,859 3½	393 6 0 406 13 9	'	' '	436 4 0			4 • •			***	11 5	7 1	58 18 0		78 2 (966 10	Surveyor also employed at office work for two months.
Authorized. J. A. Wilson	Trans	. 100						2,560 0.78		9,164 770		173 12 3 34 18 0					20/9½		5½ 7 	5 0	39 17 6	••,	•••		Comparatively small cost of rural and suburban section survey due to the fact that the land was lightly timbered, the sections mostly adjoining each other, and the frontage and ranging-pegs only being put in ground. Mr. Wilson being a permanent officer of the Public Works Department (also an
Totals and means		325,683	1 07 1,4	454 8 0	80,134	22 750	7 0	93,418 3.05	1,188,16 2	19,990	263 1/3.5	1,292 7 9	155 26	16 1	211 16 6	189	25 11/8	110 1 6	411/4 19	9 11	793 14 10	,	162 8 (authorized surveyor) charged for labourers' wages only, hence the low cost of his surveys. £955 2s. 4d. of this sum is chargeable to other departments.
PROVINCIAL DISTRICT OF OTAGO.																									
Staff. John Strauchon David Barron A. R. Mackay	Tuturau, Toetoes, Waipahi, Wynd- ham, and Kuriwao Kyeburn, Maniototo, Blackstone, and Maruwevua Cromwell, Bannockburn, Leaning			•••						20,145 7,907 3,093	53 1/6	1,005 9 10 593 1 0 193 6 3	,,,,			170	21 20/0		30 5		 75 10 0				Part open, part bush country; 4,500 acres of this is heavy bush, requiring great labour in bush-cutting; cadet assisting. Open country, within gold field; surveys scattered; long distances to travel; cadet assisting part of year.
George Mackenzie	Rock, Fraser, Tiger Hill, Lauder Clyde, Alexandra, and Ophir Table Hill, Tuapeka East, Waipori, Clarendon, Tokomairiro, Dunedin and East Taieri, Akatore, Mau-	•••	•••						***	20,553		1,201 19 3	18 5		 28 17 <i>7</i> 		11 8/7 : 	308 15 6		,,,	33 0 0		10 0 0	955 9 0	Open country, within gold field; surveys much scattered, and in rough places; 980 miles were travelled during the year, showing that nearly three months were taken up in travelling alone; no cadet.
W. D. B. Murray	ngatua Kapiti and Balclutha Waikaia, Glenkenich, Chatton, Waikaka, Wendonside, and Wendon		•••	•••		}		23,043 2	195 19 10	10,096	37 8½	361 4 0	127 16	$7 \begin{vmatrix} 14/4\frac{1}{2} \\ \dots \cdot \end{vmatrix}$	140 0 0	•••						···	90 5 11	K	Part open country, partly within gold field; 1,732 acres is rough bush, subdivided into small areas; £406 16s. 3d. of £1,201 19s. 3d. is included for survey done last year, but not included in that return.
John Edie	Mount Hyde		•••			I		***	***	14,171	$\begin{array}{c c} & \\ 56 & 1/2\frac{1}{4} \end{array}$	839 15 7	199 17	7 34/0 8	302 15 6 		3 9/0	15 0 0					20 0 0	1 / '	Open country, within gold field; surveys scattered; long distances to travel; cadet assisting ten months. Open country, within gold field; during the year this officer was absent sick for
	Tuapeka East, Waitahuna East, Table Hill, and Waipori Waipori Town			•••			•••	111	***	20,897	57 /6.2	539 10 4		1 94/0	 4 14 0	ĺ	$51 6/1\frac{1}{4} 1$	180 5 8	•••				64 19 (!)	Open country, within gold field; during the year this officer was absent sick for six months; had cadet for six months. Open country, within gold field; this officer had one month's leave during year;
E. H. Wilmot	Shotover, Kawarau, Coneburn, Car- drona, Skippers, Polnoon, and Earnslaw	•••	•••		***				•••	2,145	45 4/5	480 10 6		1 1		94	12 20/4	96 0 4		5/0	11 1 0		202 12 8	1	Open country, within gold field; surveys greatly scattered, and difficult of access; district very expensive to work, sections requiring extensive connections; all sections isolated; cadet assisted for three months; officer had leave of observed
John Campbell William Armstrong	Leaning Rock, Fraser, Wendon, Rox- burgh, and Pembroke Town Kuriwao, Glenomaru, and Woodland			•••					***	11,702 4,558	· }	560 15 4 352 10 0						•••			51 19 2		77 11 9		Open country, within gold field; surveys scattered.
Contract. John A. Connell G. M. Barr	Clinton Town Benmore, &c Gala and Otamatakau						11	 15,875 1,47 54,300 1,55	 709 14 8				184	200/0	10 0 0						•••		10 0 0	700 14 8	This officer was appointed in January, 1880, consequently return only represents six months' work.
R. Grigor Totals and means	Balclutha Town						29	3,218 1½ 1	 1,905 14 6		480 1/0¾ (***	100 83	3 15/7	64 15 6	•••		770 10 3 1		 3/0 3	75 3 2			64 15 6	£168 7s. 2d. of the £1,000 still to pay.
•)		I		<u> </u>	J					1 ' -1	<u> </u>			<u> </u>			70 10 0 1	.002	5/0 8	79 5 2	•••	931 18 5	10,325 3 11	
Staff. Norman Prentice	Taringatura and Hokonui									13,620	80 1/11	747 5 2	1		OT OF SO										•
George Murray	Takitimo, &c Longwood, Taringatura, &c			•••		• .	10	09,440 1·38 5,760 3	628 7 8 72 0 0	7,907 9,719	$19 1/3\frac{1}{5} $	500 19 2	•••		••••	Ì					•••	•••	90 0 0	1,002 5 2 1,006 10 2	Block of 5,000 acres in progress; cost to date, £165. Measurement of standard base-line included in this; section isolated, and old boundaries requiring adjustment; £122 16s. 8d. debited against triangulation from last year now included.
William Hay John Innes Temporary.	Hokonui, Winton, &c New River Wairio, Invercargill, &c			***		:	••	•••		9,313	103 1/7 8	529 19 9 742 1 0 395 0 0				1	4 15/	1	!	10 0	40 10 0		25 0 0	875 1 0 41 14 0	Mining leases in dense bush, Longwood. Surveys scattered, and blocks irregular. Excess cost cutting bush lines, Ryal Bush; survey included last return; party broken up on completion of this work.
James Blaikie Contract and Schedule. James Blaikie	Wairio								•••	4,367 1,932	23 11½	202 8 10 166 9 1			•••		••		1			•••	40 0 0	202 8 10	Several surveys in progress; cost to date, £59 16s.; some 180 sections, embracing nearly 1,000 acres in bush, included in return. River traverse done previously by George Murray.
T. B. McNeil D. W. McArthur	New River, Campbelltown, &c Hokonui and Jacob's River Hokonui Wairio						··		•••	1,290 1,197 398 2,848	$ \begin{array}{c c} 8 & 3/0\frac{1}{2} \\ 139 & 4/0\frac{1}{2} \\ 2 & 3/4\frac{3}{4} \\ 12 & 11 \end{array} $	196 10 0 242 0 0 67 8 0 130 10 8	•••								•••	•••		$\begin{array}{cccc} 196 & 10 & 0 \\ 242 & 0 & 0 \\ 67 & 8 & 0 \end{array}$	Nearly half the acreage in bush. Saw-mill areas chiefly. Village setttlements. Saw-mill areas.
J. D. McArthur	Invercargill, Winton, Forest Hill, &c. Longwood Longwood									2,295	12 1/11 7	221 7 6				25 111	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17 8 0 78 6 0		••		***		17 8 0	Nearly half in bush, being saw-mill areas. Dense bush, Longwood. Ditto.
25 was with intents		***	.		•••		. 11	5,200 1.45	700 7 8	59,292	$ 492 1/4\frac{3}{4} 4$,141 19 2	381 376	$\frac{ 11/11\frac{5}{6} 22}{ }$	25 5 3	177	$15 14/3\frac{1}{2} 12$	26 9 0	9 4 1	.0 0 4	40 10 0		155 0 0	5,533 4 5	
								,																	